Ontario

Ministry of
Northern Development
and Mines

Mines and
Minerals
Division

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 590

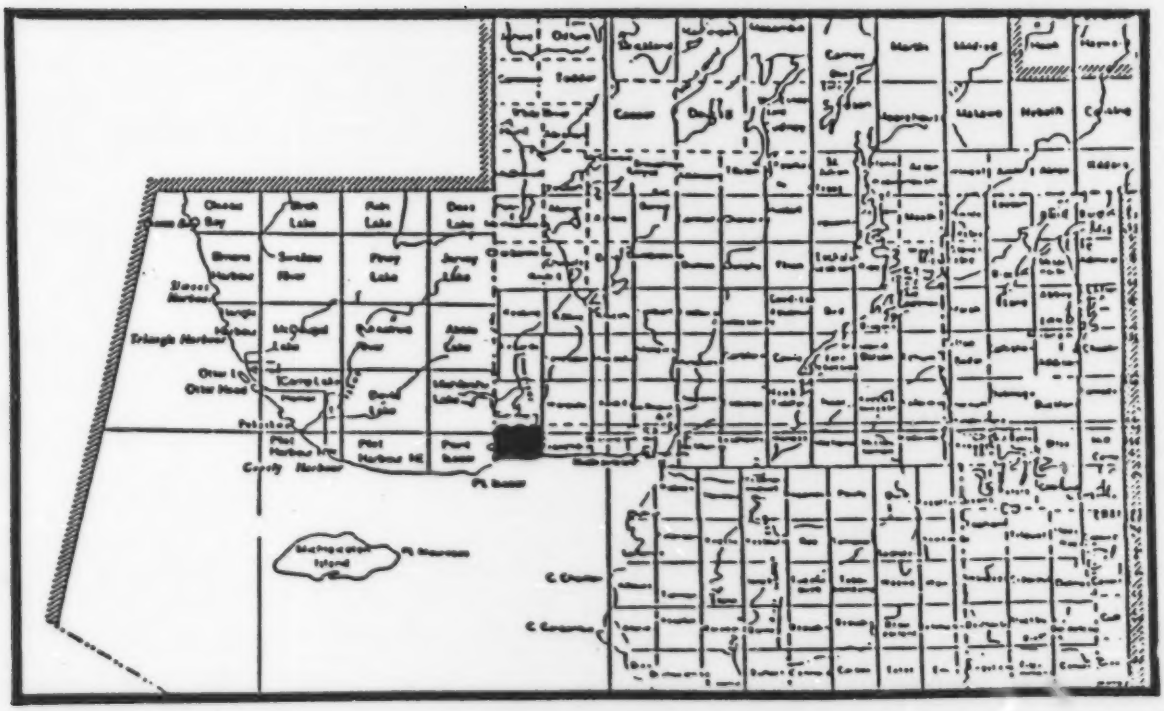
GROSEILLIERS TOWNSHIP

Sault Ste. Marie Mining Division

N.T.S. No. 41N/14N

Compiled by the staff of
the Resident Geologist's Office

WAWA



LOCATION MAP

Mining Claim Map Number G-2281 (formerly M-1573)

This project was funded by the Northern Development Fund, Wawa Economic Development Initiatives

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Wawa Resident Geologist's Office, 1991. Groseilliers Township, Geological Data Inventory Folio 590; compiled by the staff of the resident Geologist's Office, Wawa.

Original Compilation by: Howson, Tim, 1986.

Date	Page(s) Revised	Revised by
11/89	1, 3-1, 4-3, 4-4, 6-1, 6-2, 7-1, 9-1, 10-1, 11-1, 11-2, 11-3, 12-3, 13-1, 13-2, 13-3, 13-4, 13-5, 14-1, 15-1	C.L.
*		

Date	Page(s) Revised	Revised by

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ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1, A-2

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report
OFM	Open File Map
OCRS	Ontario Centre for Remote Sensing
CCRS	Canada Centre for Remote Sensing
WRGO	Wawa Resident Geologist's Office

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	T.H.
2	Assessment Files Research Office, Toronto	Yes	A.F.R.O.
3	OGS/ODM General Index	Yes	T.H.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	T.H.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	T.H.
6	ODM Industrial Mineral Reports	No	T.H.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	T.H.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	T.H.
9	Newspaper Clippings File	Yes	T.H.
10	GSC Index to Publications	Yes	T.H.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	T.H.
12	OGS Index Maps	Yes	T.H.
13	Source Mineral Deposit Records (OGS)	No	T.H.
14	Author - Subject Articles File	Yes	T.H.
15	ODM/OGS Miscellaneous Papers	Yes	T.H.
16	ODM Geological Circulars	No	T.H.
17	OGS Study Series	No	T.H.
18	ODM Preliminary Reports	No	T.H.
19	ODM Bulletins	No	T.H.
20	ODM/OGS Open File Reports	Yes	T.H.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	Yes	T.H.
22	OGS Aggregate Resources Inventory Papers	No	T.H.
23	OGS Mineral Potential Maps	Yes	T.H.
24	Drill Core Library Catalogue	Yes	T.H.
25	Algoma Central Railway Maps	Yes	T.H.
*			

GROSEILLIERS

MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite
ank ..... Ankerite
ap ..... Apatite
arg ..... Argentite
As ..... Arsenic
asp ..... Arsenopyrite
asb ..... Asbestos
ba ..... Barite
be ..... Beryl
Bi ..... Bismuth
bn ..... Bornite
Cd ..... Cadmium
calc ..... Calcite
carb ..... Carbonate
cc ..... Chalcocite
cp ..... Chalcopyrite
ch ..... Chert
clay ..... Clay
Co ..... Cobalt
cob ..... Cobaltite
▲Cu ..... Copper
cor ..... Corundum
dol ..... Dolomite
ep ..... Epidote
fel ..... Feldspar
fl ..... Fluorite (flurospar)
fu. ..... Fuchsite
gn ..... Galena
gt. ..... Garnet
goe ..... Goethite
▲Au ..... Gold
gf ..... Graphite

gl ..... Gravel
gyp ..... Gypsum
hem ..... Hematite
Fe ..... Iron
▲IF ..... Iron Formation
jas ..... Jasper
ky ..... Kyanite
▲Pb ..... Lead
lim ..... Limonite
Li ..... Lithium
mgst ..... Magnesite
mag ..... Magnetite
mc ..... Malachite
Mn ..... Manganese
mb ..... Marble
mar ..... Marcasite
ma ..... Marl
mi ..... Mica
mo ..... Molybdenite
Mo ..... Molybdenum
mon ..... Monazite
ne .... Nephelite (nepheline)
Ni ..... Nickel
Nb ..... Niobium
Pd ..... Palladium
pent ..... Pentlandite
Pt ..... Platinum
▲py ..... Pyrite
pyl ..... Pyrochlore
po ..... Pyrrhotite
q ..... Quartz
qcv .. Quartz carbonate vein

ra ..... Radioactive minerals
RE ..... Rare Earths
sd ..... Sand
sgl ..... Sand and gravel
ss ..... Sandstone
scap ..... Scapolite
shee ..... Scheelite
serp ..... Serpentine
sh ..... Shale
sid ..... Siderite
si ..... Silica
▲Ag ..... Silver
sl ..... Slate
sm ..... Smaltite
sod ..... Sodalite
spec ..... Specularite
sp ..... Sphalerite
spd ..... Spodumene
▲s ..... Sulphides
talc ..... Talc
Te ..... Tellurium
th ..... Thorite
Th ..... Thorium
ti ..... Titanite
Ti ..... Titanium
tour ..... Tourmaline
W ..... Tungsten
uran ..... Uraninite
U ..... Uranium
verm ..... Vermiculite
▲Zn ..... Zinc
zr ..... Zircon

ADDITIONS

*

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES			Source Min. Dep. Record	References in OGS Min. Dep. Cir. and Indus. Mineral Rpts.	Additional References and/or Remarks
Map Ref. Letter	(see Data Map) Name(s)	Mineralization			
A	Fall Creek Occurrence	IF		MRC 011, p. 88-89	-see OBM Map 14a -see ODM-GSC Map 2175G
B	Sutherland Prospect	Cu, Pb, Zn, Au, Ag		MRC 012, p. 84	-see ODM Map P. 507
C	Unnamed Occurrence	S			-see ODM Map P. 507
D	Unnamed Occurrence	S			-see ODM Map P. 507
E	Unnamed Occurrence	S			-see ODM Map P. 507
F	Pyritic Zone	Au, py			-see file WP-Franchere-6 p. 32

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
										Airborne			Ground						
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus	Notes Corresp	Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes
1	Rawhide "U" Mines Ltd. (Groseilliers 0010-A1)				70															
2	Rawhide "U" Mines Ltd. (Groseilliers 0010-C1)				70															
3	Rawhide "U" Mines Ltd. (Groseilliers 0010-D1)				70															
4	Falconbridge Nickel Mines Ltd. (Groseilliers 0010-E1)				73															
5	Falconbridge Nickel Mines Ltd. (Groseilliers 0011)									70	70									
6	Broad Scope Developments Ltd. Szetu, S.S. (Groseilliers 0012)	70						71												

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																			
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Mag	EM	Rad	Mag	EM	Rad	IP	Self potential	Resistivity	Other Data	or footnotes
7	Rawhide "U" Mines Ltd. Szetu, S. S. (Groseilliers 0013-A1)	70	69 70			70							70						
8	Algoma Central Railway Vishnupada, B. Macauley, T. N. (Groseilliers 0013-C1)	62 63																	
9	Falconbridge Nickel Mines Ltd. (Groseilliers 0014)				73														
10	MacMillan Energy Corp. Ltd. (Groseilliers 0015)								83	83									
11	New Beginnings Resource Ltd. (Groseilliers 0016)								83	83									

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp		Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes
12	Asarco Exploration Company of Canada Ltd. (St. Germain 0010)	72				72				72?	72?									N-4
13	Sutherland & Associates (41N/14NW 0011)				65	65														
14	MacMillan Energy Corp. Ltd. (42C/03SW 0028)	83																		
15	Alotta Resources Ltd. (WP-Groseilliers-1)									87	87									N-2
16	Joutel Resources Ltd. (WP-Groseilliers-2)									88	88									N-2
17	Muscocho Explorations Ltd. (WP-Groseilliers-3)									88	88									N-1 N-2

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp		Mag	EM	Rad	Mag	EM	Rad	IP	Self potential	Resistivity	Other Data	or footnotes
18	Universal Trident Industries Ltd. (WP-St. Germain-2)		88			88														N-2
19	Muscocho Exploration Ltd. (WP-Groseilliers-4)	88	88			88														N-2
20	Villeneuve Resources Ltd. (WP-Mishibishu-23)									89	89									N-2
21	Alotta Resources Ltd. (WP-Franchere-3)												88	88						N-2
22	Alotta Resources Ltd. (WP-Franchere-6)	88	88			88														N-2

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
1	Rawhide "U" Mines Ltd. (Groseilliers 0010-A1)	1	1970	S60 W	-45	0	310.0′	py	
2	Rawhide "U" Mines Ltd. (Groseilliers 0010-A1)	2	1970	S60 W	-45	2.0′	250.0′	py, gf	
3	Rawhide "U" Mines Ltd. (Groseilliers 0010-A1)	5	1970	S60 W	-45	3.0′	125.0′		
4	Rawhide "U" Mines Ltd. (Groseilliers 0010-A1)	6	1970	S60 W	-45	4.0′	140.0′		
5	Rawhide "U" Mines Ltd. (Groseilliers 0010-A1)	7	1970	S60 W	-45	15.0′	101.0′	py, gf	
6	Rawhide "U" Mines Ltd. (Groseilliers 0010-C1)	4	1970	S60 W	-45	4.0′	252.0′	py, po	
7	Rawhide "U" Mines Ltd. (Groseilliers 0010-D1)	3	1970	S60 W	-45	4.0′	259.0′	py, po, cp, gf	
8	Falconbridge Nickel Mines Ltd. (Groseilliers 0010-E1) (Groseilliers 0014)	639-26-73	1973	South	-45	4.0′	298.0′	IF	

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
9	Falconbridge Nickel Mines Ltd. (Groseilliers 0014)	639-23-73	1973	S20 W	-45	9.0′	300.0′		
10	Falconbridge Nickel Mines Ltd. (Groseilliers 0014)	639-24-73	1973	S20 W	-45	7.0′	301.0′		
11	Falconbridge Nickel Mines Ltd. (Groseilliers 0014)	639-25-73	1973	S20 W	-45	7.0′	301.0′	py	
12	Falconbridge Nickel Mines Ltd. (Groseilliers 0014)	639-32-73	1973	N30 E	-45	8.0′	241.0′	po	
13	Sutherland & Associates (41N/14NW 0011)	1-2	1965	N95 W	-50	6.0′	368.0′	py, po, sp	Cu
14	Sutherland & Associates (41N/14NW 0011)	1-3	1965	N45 W	-45	6.0′	396.0′	py, cp	Cu
15	Sutherland & Associates (41N/14NW 0011)	1-4	1965	N45 W	-45	10.0′	387.5′	py, cp	Cu, Au
16	Sutherland & Associates (41N/14NW 0011)	1-5	1965	N45 W	-45	13.0′	403.0′	py, qv, cp	Cu, Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
17	Sutherland & Associates (41N/14NW 0011)	1-6	1965	N45 W	-45	5.0′	603.7′	py, po, sp, gh, cp	Pb, Zn, Cu, Au
18	Sutherland & Associates (41N/14NW 0011)	1-7	1965	N45 W	-45	5.0′	349.0′	py, qv	Cu, Au
19	Sutherland & Associates (41N/14NW 0011)	1-8	1965	N45 W	-45	15.0′	226.0′	cp, py	Au, Cu
20	Sutherland & Associates (41N/14NW 0011)	1-9	1965	N80 W	-45	11.0′	217.5′	cp, py	Au, Cu
21	Sutherland & Associates (41N/14NW 0011)	1-10	1965	N80 W	-45	22.0′	247.5′	sp, gn, py, cp	Au, Co, Cu
22	Sutherland & Associates (41N/14NW 0011)	1-11	1965	N45 W	-45	21.0′	340.0′	cp, py	Au, Cu, Sn
23	Sutherland & Associates (41N/14NW 0011)	1-12	1965	N80 W	-45	6.5′	352.0′	cp, py	Au, Cu
24	Sutherland & Associates (41N/14NW 0011)	1-13	1965	N80 W	-45	4.0′	322.0′	cp, py	Au, Cu

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
25	Sutherland & Associates (41N/14NW 0011)	1-14	1965	N45 W	-60	2.0'	706.0'	cp, py	Au, Cu

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
5	-by McPhar Geophysics -for Falconbridge Nickel Mines Ltd. -1970	-a. Proton free precession magnetometer -b. McPhar KEM electromagnetic system	300′	N-S	1/12mile 1/6mile
10	-by Aerodat Ltd. -for MacMillan Energy Corp. -1983	-a. 3 frequency electromagnetic system -b. VLF-EM -c. Magnetometer	60m	NE-SW	660′
11	-by Aerodat Ltd. -for New Beginnings Resource Ltd. -1983	-a. 3 frequency electromagnetic system -b. VLF-EM -c. Magnetometer	60m	NE-SW	660′
15	-by H. Ferderber Geophysics Ltd. -for Alotta Resources Ltd. -1987	-a. GEM-GSM-9BA Overhauser proton precession magnetometer -b. Herz Totem 2A VLF-EM system	250′	65-245	440′
16	-by Terraquest Ltd. -for Joutel Resources Ltd. -1988	-a. GSM-9BA Overhauser proton precession magnetometer -b. Herz Totem 2A VLF-EM system	100m	50	100m

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
17	-by Dighem Surveys & Processing Inc. -for Muscocho Explorations Ltd. -1988	-a. Sonotek PMH 5010 magnetometer -b. Herz Totem 2A VLF-EM system -c. DIGHEM III EM system	60m	65 1245	100m
20	-by H. Ferderber Geophysics Ltd. -for Villeneuve Resources Ltd. -1989	-a. GEM systems GSM-11 proton (Overhauser) magnetometer -b. Herz Totem 2A VLF-EM system	300'	N-S	1250'

Map Site No.	GEOCHEMICAL SURVEY DATA		By	Reference(s)
	Type of survey	Analysis for		
1	Soil Sampling	Cu, Zn	Rawhide "U" Mines Ltd.	file Groseilliers 0013-A1
2	Stream and Spring Sediments	Cu, Ni, Zn, Co, Mn and Cold Extractable Heavy Metals	Wolfe, W.J. for the OGS	ODM GR 158 and 6 maps
3	Lake Sediment and Water Geochemical	Zn, Cu, Pb, Ni, Co, Ag, Mn, As, Mo, Fe, U, F	OGS-GSC	OGS OFR 5267
4	Soil Sampling from "B" Horizon	Au, Ag, Cu, Pb, Zn, As	Universal Trident Industries Ltd.	file WP-St. Germain-2
5	Rock and Stream Sediments	Au	Muscocho Exploration Ltd.	file WP-Groseilliers-4
6	Soil Sampling from "B" Horizon and Humus	Au, As	Alotta Resources Ltd.	file WP-Franchere-6

GEOCHRONOLOGY DATA – AGE DATING

Site No. on Map	Method	Material	Reference	Result

GROSEILLIERS

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist Office

(a) Aerial Photographs

1. 1" to 1/4 mile, black & white; 1980; see Addenda (p. 15-1) for details

(b) Photomosaics

(c) Satellite Imagery

1. Experimental Composite of Airborne Radar (SAR) and Total Field Air Magnetics, SAR Data Acquired 24-May-88 by CCRS Radar Development Program. Total Magnetic Field Derived from Digital Archives of OGS Map 81 143 R. B. Barlow. Processed at Ontario Centre for Remote Sensing/MNR 10-Feb-89 1:50 000

2. Experimental Composite of Airborne Radar (SAR) and Total Field Aeromagnetics SAR Data Acquired 24-May-88 by CCRS Radar Development Program. Total Magnetic Field Derived from Digital Archives of OGS Map 81 143 R. B. Barlow. Processed at Ontario Centre for Remote Sensing/MNR 10-Feb-89 1:100 000

TOPOGRAPHIC MAPS (selected)			
Scale	Year	Name and/or Number	By
1: 50 000	1970	Mishibishu Lake: NTS 42C/3	Surveys and Mapping Branch: Department of Energy, Mines and Resources
1: 50 000	1970	Dog Harbour: NTS 41N/14	Surveys and Mapping Branch: Department of Energy, Mines and Resources
1: 100 000	1979	Michipicoten Island: NTS 41N/NW	Surveys and Mapping Branch: Ministry of Natural Resources
1: 100 000	1979	Pukaskwa River: NTS 42C/SW and part of 42D/SE	Surveys and Mapping Branch: Ministry of Natural Resources

NEWSPAPER CLIPPINGS FILE

PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	02/01/87	28	The Applegath Group of Companies-Mishibishu Lake area Property map of the Mishibshu Lake area Northwestern Ontario MacMillan Energy Corp.
Northern Miner	10/05/87	24	The Applegath Group of Companies-Mishibishu Lake area Property map of the Mishibshu Lake area Northwestern Ontario New Beginnings Resources Inc.
Northern Miner	11/16/87	A23	The Applegath Group of Companies-Mishibishu Lake area Property map of the Mishibshu Lake area Northwestern Ontario New Beginnings Resources Inc.
Northern Miner	01/18/88	40	The Applegath Group of Companies-Mishibishu Lake area Property map of the Mishibishu Lake area Northwestern Ontario New Beginnings Resources Inc.
Northern Miner	02/22/88	24	The Applegath Group of Companies-Mishibishu Lake area Oneida Resources Ltd.
George Cross Newsletter	03/14/88	24	Villeneuve Resources Ltd.
Northern Miner	05/16/88	16	The Applegath Group of Companies-Mishibishu Lake area Property map of the Mishibishu Lake are Northwestern Ontario

GROSEILLIERS

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
News Release	05/19/88	3,4	Dennison Falls (117 claims 4,680 acres) Alotta Resources Ltd.
News Release	05/19/88	3,4	Mishibishu Lake area, Northwestern Ontario Alotta Resources Ltd.
Northern Miner	05/30/88	24	The Applegath Group of Companies-Mishibishu Lake area Property map of the Mishibishu Lake area Northwestern Ontario Villeneuve Resources Ltd.
Northern Miner	06/06/88		Mishibishu gold camp Alotta Resources Ltd.
Northern Miner	06/06/88	28	The Applegath Group of Companies-Mishibishu Lake area Hemlo Gold Mines Inc.
Northern Miner	06/09/88	24	The Applegath Group of Companies-Mishibishu Lake area Property map of the Mishibishu Lake are Northwestern Ontario
?	06/13/88	A16	The Applegath Group of Companies-Mishibishu Lake area Hemlo Gold Mines Inc.
George Cross Newsletter	06/22/88		The Applegath Group of Companies-Mishibishu Lake area Hemlo Gold Mines Inc.

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	06/27/88	12	The Applegath Group-update on the Mishibishu area Villeneuve Resources Ltd.
George Cross Newsletter	06/30/88		Alotta Resources Ltd.
George Cross Newsletter	07/15/88		Mishibishu Lake Area Map The Applegath Group of Companies-Mishibishu Lake area Alotta Resources Ltd.
Northern Miner	08/22/88		The Applegath Group of Companies Tundra Gold Mines Ltd.

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Denison Falls
Denison Lake
Dog Harbour
Dog River
Groseilliers Township
Jimmy Kash River
Little Dog Harbour
Township 33 Range 23
University River
Sutherland & Associates
Rawhide "U" Mines Ltd.
Broad Scope Developments Ltd.

Index Volume	Listing:	Report Volume	Part	Page
1	Denison Falls, Dog River, Lake Superior			
	Nomenclature	8		141
	Photo	8		168,169
	schist, conglomerate	8		146,166
	waterpower	14	1	299
	Dog River, Lake Superior	9		175,176
	beaches along	14	1	288
	level of	8		154,155
	Fall of from headwaters to Lake Superior	14	1	286
	Fish, trout	8		133
	whitefish	14	1	297
	Gold	8		141
	Indian camp near, photo	14	1	298
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		14	1	322,323
	Jaspery ores near mouth	10		200
	Notes by J.M. Bell	14	1	285
	Coleman	8		133
	Wilmott	8		140,141
	Rocks on and near:			
	agglomerates	14	1	342
	chert, pyritous	14	1	314
	conglomerate	8		146,166
		9		161
	Rocks on and near:	10		203
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		14	1	346
	greenstone	14	1	302
	Huronian	8		133
		14	1	348
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	(continued)			

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing:	Report Volume	Part	Page
1	Dog River, Lake Superior (continued)			
	Sand bar at mouth, photo	8		168,169
	Striae on and near	14	1	288
	direction	9		178,179
	Waterpower, Bull. (3) 13	14	1	299
	photo	8		168,169
2	Dog River Iron Claims, Lake Superior			
	Iron formation, banded	I.O.		194
3	University River, Lake Superior			
	Iron formation, banded	49	9	3,4
4	No Listings			
5	No Listings			
6	No Listings			
7	No Listings			
8	Tp. 33, Range 23, Algoma District			
	Copper/lead/zinc/silver/Gold	MRC 12		84
	Iron	MRC 11		88-89
	Sutherland, W.D. & Assoc.			
	Tp. 33, Range 23, Algoma District	MP 22		33
9	Dog Harbour			
	Groseilliers Tp., Algoma District	GR 153		5,8,19
	Groseilliers Tp., Algoma District			
	Geology of the Pukaskwa University Rivers Area	GR 153		

OGS/ODM GENERAL INDEX SEARCH

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Index Volume	Listing	Report Volume	Part	Page
9	University-Pukaskwa Rivers Area, Algoma and Thunder Bay Districts Geology of the area Report, maps 1332 & 2333 & chart on, 1977 by G. Bennett and P.C. Thurston	GR 153		
	Broad Scope Development Ltd. Groseilliers Tp., Algoma District	GR 153		39,46
	Rawhide "U" Mines Ltd. Groseilliers Tp., Algoma District report on property	GR 153		51
	Sutherland, W.B. & Assoc. Groseilliers Tp., Algoma District	GR 153		39,40, 52
	University River Pukaskwa River Area, Algoma District	GR 158		7,16, 43,44

GROSEILLIERS

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Algoma Central Railway	1964	Part Sheets	ACR Map	1"=1mile
Algoma Central Railway	1964	Mishibishu Lake - Pokei Lake	ACR Map 42C 3 & 6	1"=1mile
Barlow, R.B.	1988	Total Magnetic Field Colour Image, Developed from Digital Archives of the OGS, Wawa Area, Districts of Algoma, Thunder Bay and Sudbury	OGS Geophysical/ Geochemical Series Map 81143	1:100 000
Barlow, R.B.	1988	Calculated Second Vertical Derivative Colour Image, Developed from Digital Archives of the OGS, Wawa Area, Districts of Algoma, Thunder Bay and Sudbury	OGS Geophysical/ Geochemical Series Map 81144	1:100 000
Barlow, R.B.	1988	Directionally Shadowed Total Magnetic Field Colour Image, Developed from Digital Archives of the OGS, Wawa Area, Districts of Algoma, Thunder Bay and Sudbury	OGS Geophysical/ Geochemical Series Map 81145	1:100 000
Bell, J.M.	1905	Iron Ranges of Michipicoten (West)	OBM AR Vol. 14, Pt. 1, with Map 14a	p. 278-355 1:126 720

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Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Bennett, G. Thurston, P. C.	1972	Operation Pukaskwa, Districts of Thunder Bay and Algoma, Ontario	OGS OFR 5073	93 pages
Bennett, G. Thurston, P. C. Giguere, J. F.	1972	University River Sheet	ODM Map 2333	1"=1mile
Bennett, G. Thurston, P. C. Giguere, J. F.	1969	Operation Pukaskwa, University River Sheet, Districts of Thunder Bay and Algoma	ODM Prelim. Map P. 507	1"=1mile
Bennett, G. Thurston, P. C. Giguere, J. F.	1968	Summary of Field Work by the OGS, No. 12, Operation Pukaskwa, Districts of Thunder Bay and Algoma	OGS MP 22	p. 31-34
Bennett, G. Thurston, P. C. Giguere, J. F.	1968	Summary of Field Work by the OGS, November 12, Operation Pukaskwa, Districts of Thunder Bay and Algoma	OGS MP 22	p. 31-34
Bennett, G. Thurston, P. C.	1977	Geology of the Pukaskwa - University Rivers Area, Districts of Algoma and Thunder Bay	ODM GR 153 and 2 Maps	60 pages 1"=1mile
Bowen, R. P. Logothetis, J.	1985	Mishibishu Lake Area Districts of Algoma and Thunder Bay	OGS MP 126	p. 78-82

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Coker, W. B. Shilts, W. W.	1979	Lacustrine Geochemistry Ground the North Shore of Lake Superior: Implications for Evaluation of the Effects of Acid Precipitation	GSC Paper 79-1C	p. 1-15
Coleman, A. P.	1899	Copper Regions of the Upper Lakes, Ontario	OBM AR Vol. 8, Pt. 2	p. 121-174
Coleman, A. P.	1899	Map of the Western Part of the Michipicoten Mining Division, Algoma District	OBM Map 8b	1: 253 440
Coleman, A. P. Willmott, A. B.	1899	Michipicoten Iron Ranges	OBM AR Vol. 8, Pt. 2	p. 254-258
Gartner Lee Associates Ltd.	1974	Aggregate Resources Search - North Shores Lakes Superior and Huron, Districts of Thunder Bay and Algoma	OGS OFR 5117 and 28 Maps	116 pages 1" =2miles 1" =16miles
Gartner, J. F. McQuay, D. F.	1979	Pukaskwa River Including Michipicoten Island: Northern Ontario Geology Terrain Study	NOEGTS Study 72 with Map 5096	14 pages 1: 100 000
Heather, K. B.	1985	Gold Showings of the Mishibishu Lake Area, Thunder Bay District	OGS MP 126	p. 83-89

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Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Logan, W. E. Murray, A.	1847	North Shore of Lake Superior	GSC Rpt of Progress 1846-7	p. 5-35
Milne, V. G. et al	1972	Manitouwadge - Wawa Sheet	OGS Map 2220	1" =4miles
ODM-GSC	1963	Aeromagnetic Map: Point Isacor	ODM-GSC Aeromagnetic Series Map 2175G	1" =1mile
ODM-GSC	1963	Aeromagnetic Map: Mishibishu Lake	ODM-GSC Aeromagnetic Series Map 2176G	1" =1mile
OGS-GSC	1979	Regional Lake Sediment and Water Geochemical Reconnaissance, Eastern Shore Lake Superior	OGS OFR 5266 and 16 Maps	56 pages 1: 250 000
Reid, R. G. Reilly, B. A.	1987	Mishibishu Lake Area Districts of Algoma and Thunder Bay	OGS MP 137	p. 138-145
Springer, Janet	1977	Ontario Mineral Potential: Michipicoten Sheet	OGS Prelim. Map P. 1516	1: 250 000

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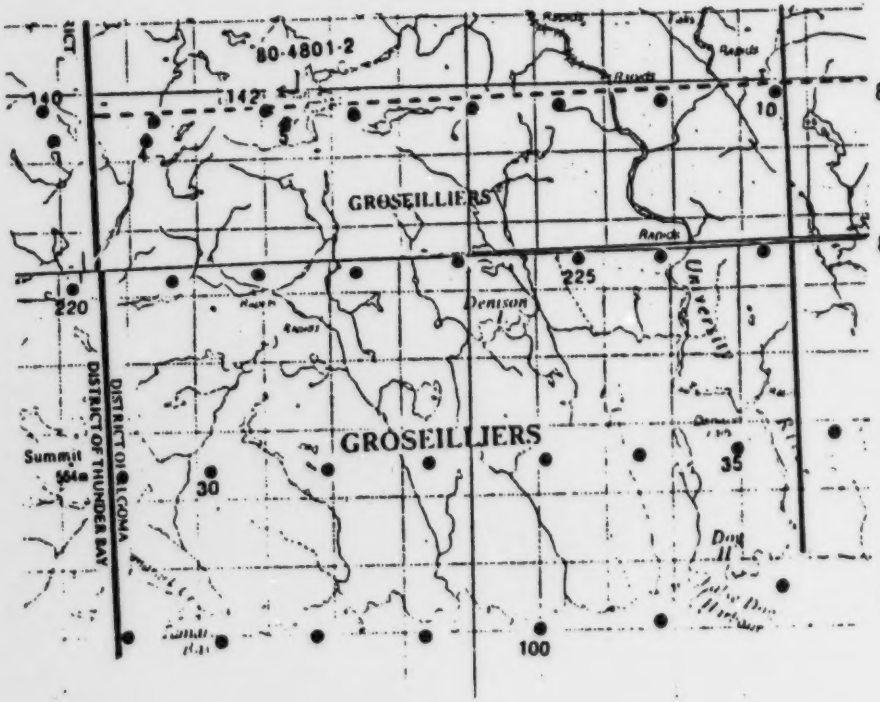
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Springer, Janet	1977	Ontario Mineral Potential: White River Sheet	OGS Prelim. Map P. 1519	1: 250 000
Tortosa, D. J. J. et al	1988	Report of Activities 1987 Resident Geologists	OGS MP 138	p. 176
Wolfe, W. J.	1976	Regional Geochemical Reconaissance of Archean Metavolcanic - Metasedimentary Belts in the Pukaskwa Region	ODM GR 158	54 pages
Wolfe, W. J.	1973	Regional Geochemical Reconnaissance of Archean Metavolcanic - Metasedimentary Belts in the Pukaskwa Region, Algoma and Thunder Bay Districts	OGS OFR 5091	62 pages
Wolfe, W. J. Thurston, P. C.	1969	Operation Pukaskwa	ODM Prelim. Map P. 541	1"=2miles
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Cold Extractable Heavy Metals in Stream and Spring Sediments	ODM Prelim. Map P. 508	1"=1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Copper in Stream and Spring Sediments	ODM Prelim. Map P. 509	1"=1mile

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Zinc in Stream and Spring Sediments	ODM Prelim. Map P. 510	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Manganese in Stream and Spring Sediments	ODM Prelim. Map P. 511	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa Districts of Thunder Bay and Algoma: Geochemistry of Nickel in Stream and Spring Sediments	ODM Prelim. Map P. 512	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Cobalt in Stream and Spring Sediments	ODM Prelim. Map P. 513	1" = 1mile

Note #	NOTES
0	Groseilliers Tp. was formerly known as Tp. 33 R. 23.
0	Brief computer based index level data files pertaining to mineral occurrences in this township or area can be found in: Rose, D.G. 1985: Mineral inventory of the Sudbury-Timmins Sault Ste. Marie Region, Ontario, Geological Survey of Canada Open File 1087
1	This file (WP-Groseilliers-3) also contains an airborne resistivity survey completed in 1988.
2	The following is a list of Wawa file numbers with their corresponding Toronto (Assessment Files Research Office) file numbers: WP-Groseilliers-1 - 2.10737 WP-Groseilliers-2 - 2.11901 WP-Groseilliers-3 - 2.12123 WP-St. Germain-2 - 2.12245 WP-Groseilliers-4 - 2.12122 WP-Mishibishu-23 - 2.12670 WP-Franchere-3 - 2.11941 WP-Franchere-6 - 2.12424
3	This file (St. Germain 0010) suggests that an airborne electromagnetic survey was flown over the work area. The anomalies have been plotted on the exploration data map (B-1) which accompanies this report, no further information is available. This file also contains a sampling program completed in 1972.
4	This file (St. Germain 0010) suggests that an airborne electromagnetic and magnetometer survey was flown. This survey does not pertain to Groseilliers township.

ADDENDA

Map showing air photos available for viewing at Wawa Resident Geologist's Office, see p.9-1



CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0 028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

Wawa Resident Geologist's Office
Ministry of Northern Development
and Mines
Helen Mine Road
P.O. Box 530
Wawa, Ontario
P0S 1K0
705-856-4883

GROSEILLIERS

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 ... of text**

- Reference number is always inside work area outlined. See listing in text pages.
- Small area of exploration data
- File covers whole township or area

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: See pages 3-1,2... of text

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter
- Mineral occurrence encountered in drilling, with reference letter

DRILLHOLES: See pages 5-1,2... of text

- Location of single drillhole, with reference number
- Location of group of closely spaced drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number

GEOCHEMICAL: See pages 7-1,2...of text

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number

GEOPHYSICAL ANOMALIES

Airborne Surveys: **See pages 6-1,2... of text**

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly. Length of anomaly along flight line
- Airborne electromagnetic anomaly. Location of anomaly along flight line
- Airborne electromagnetic anomaly. Conductor axis definite, probable, possible
- AEM — Airborne electromagnetic anomaly. Conductor axis. Location of flight lines uncertain
- ARA — Airborne radiometric anomaly

Ground Surveys

- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL Vertical loop, HL Horizontal loop, VLF Very low freq., Turam, JEM, Crone Em 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

GEOCHRONOLOGICAL DATA: See page 8 of text

- Age dating material sampling site, with reference number

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Sand and or gravel pit
- Rock quarry
- Open pit

MAPS
NOT
FILMED

CARTES
OMISES